

Amendment to IMPELLER AND METHOD OF MANUFACTURING SAME
Reuel S. Orocio, inventor
Serial No. 10/047,865
Filed January 15, 2002
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In the Specification:

Please replace the paragraph beginning at page 4, line 16, with the following rewritten paragraph:

A - Referring particularly to the drawings, there is shown a pump 10 which has a pump housing 12. The pump housing 12 is designed to be connected to a motor housing 13. The motor housing 13 is to include an electrically operated motor which when operated will cause rotation of a motor shaft 14. The free outer end of the motor shaft 14 includes a series of threads 16. The motor shaft 14 includes an axis of rotation 18. -

Please replace the paragraph beginning at page 5, line 8, with the following rewritten paragraph:

A2 - The pump impeller 34 has a shroud 36 which is basically disc-shaped. The shroud 36 includes an annular inlet ring 38. The annular inlet ring 38 is centrally formed within the shroud 36 so that in essence the shroud 36 is the shape of a ring. The annular inlet ring 38 is rotatably mounted within the annular groove 32. Annular inlet ring 38 has an inlet opening 40. Mounted on the inside surface of the shroud 36 are a plurality of vanes 42. Each vane 42 is defined as being arcuate and extends from a hub 44 to the peripheral edge 35 of shroud 36. The arrangement of the vanes 42 is deemed to be a matter of choice with a typical arrangement being where the vanes 42 are basically

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all of the same length and of the same curvature, as shown in the drawings. However, the length of the vanes 42 and their pattern of arrangement and configuration could be altered without departing from the scope of this invention. There is shown eight in number of the vanes 42. Also, the number of the vanes 42 could be increased or decreased without departing from the scope of this invention. --

Please replace the paragraph beginning at page 6, line 26, with the following rewritten paragraph:

A3

-- Pump impeller 34, is rotated by rotating of shaft 14 within shaft receiving opening 15 found in motor housing 13. Rotating pump impeller 34 causes liquid to be ~~drawn~~ drawn from passage 29 into enclosing chamber 37, propelled radially outwardly past peripheral edge 35 through vane openings 33 (eight in number) into discharge passage 31 of discharge conduit 28. Because the pump impeller 34 is not formed of several parts but is formed of one part from the shaft sleeve 52 to the annular inlet ring 38 of the shroud 36, the axis of rotation 18 will be precisely aligned (within .006 inches) with the longitudinal center axis 54 preventing any kind of a wobble which is common when constructing of the pump impeller 34 of a multitude of parts which are welded together inherently creating a misalignment between the axes 18 and 54. The maximum misalignment of .006 inches is totally acceptable. --